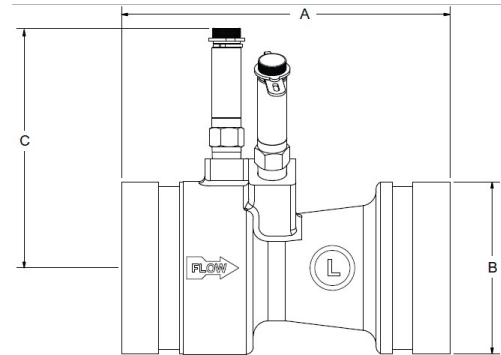


Model VG/VW Venturi Flowmeter features a carbon steel venturi flow element. The precision machined throats provides measurement accuracy of $\pm 3\%$ of flow rate. Model VG offers Grooved end connections. Model VW offers Weld end connections. Dual extended length Pressure/Temperature ports and Hanging I.D. Tag.



SPECIFICATIONS	
Pressure Ratings:	400 PSI (2758 kPa)
Temperature Ratings:	250°F (121°C)
Accuracy:	$\pm 3\%$ of flow rate
Body Material - Venturi:	2.5" - 6.0" ASTM A-216 Grade WCB 8.0" - 16.0" ASTM A-120
End Connections:	VG = Grooved End Connections VW = Weld End Connections
Metering Ports:	Extended Length Pressure/Temperature test ports
Available Options:	"PTV" combination PT & Air Vent



NOMINAL DIMENSIONS & WEIGHTS										
MODEL*	SIZE		A	B	C	Flow Range GPM (10"-100")	Weight - VG		Weight - VW	
							lbs	kg	lbs	kg
VG-250	in	2.5"	5.50	2.88	4.25	24.0 - 80.0	3.39	1.54	3.50	1.59
	mm	65	139.70	73.15	107.90					
VG-300	in	3.0"	6.00	3.50	4.59	48.0 - 150.0	4.91	2.23	5.02	2.28
	mm	75	152.40	76.20	116.59					
VG-400	in	4.0"	7.50	4.50	5.07	95.0 - 300.0	8.27	3.75	8.40	3.81
	mm	100	190.50	114.30	128.78					
VG-500	in	5.0"	8.75	5.56	5.58	120.0 - 350.0	13.02	5.91	13.14	5.96
	mm	125	222.25	141.22	141.73					
VG-600	in	6.0"	10.25	6.63	6.09	220.0 - 725.0	18.78	8.52	18.94	8.59
	mm	150	260.35	168.40	154.69					
VG-800	in	8.0"	12.50	8.63	7.05	400.0 - 1800.0	34.00	15.42	35.30	16.01
	mm	200	317.50	219.20	179.07					
VG-1000	in	10.0"	13.50	10.75	8.11	600.0 - 1700.0	50.50	23.00	51.00	23.10
	mm	250	342.90	273.05	206.00					
VG-1200	in	12.0"	12.00	12.75	7.63	1000.0 - 3200.0	70.30	31.88	70.90	32.16
	mm	300	304.80	323.85	193.80					
VG-1400	in	14.0"	19.00	14.00	8.25	1300.0 - 4600.0	72.30	32.79	72.30	32.79
	mm	355	482.60	355.60	209.55					
VG-1600	in	16.0"	26.00	16.00	9.25	1900.0 - 6000.0	144.00	65.31	144.00	65.31
	mm	406	660.40	406.40	234.95					

*Change VG to VW for Weld End Connections.
Dimensions not for construction purposes unless certified by factory.

STANDARD COMPONENTS		
	PT & PTE	Pressure / Temperature test port with brass body, dual durometer EPDM core, PTE Extender, brass cap with O-ring seal and neoprene retainer strap. Accepts standard 1/8" (4mm) gauge adapter or thermometer stem. Rated to 500 PSI (3450 kPa) and 275°F (135°C)
Please reference data sheet #Bulletin-MB-Accessories for optional accessories.		

Differential Pressure Table - Model VG/VF - 2.50" to 6.00"

MANUAL

Model MBF / MF, MBG / MG, MP, VF, VG & VW Valves size 2.50" - 6.00"										
Differential Pressure: Inches W.C.										
Flow GPM	Model Size						Flow GPM	Model Size		
	250	300	400	500	600			400	500	600
24.0	10						300.0	103	69	18
26.0	11						325.0	121	81	21
28.0	13						350.0	141	94	24
30.0	15						375.0	161	108	27
32.0	17						400.0	184	122	31
34.0	19						425.0		138	35
36.0	22						450.0		155	39
38.0	24						475.0		173	44
40.0	27						500.0		191	49
42.0	29						525.0		211	54
44.0	32	8					550.0			59
46.0	35	9					575.0			64
48.0	38	10					600.0			70
50.0	42	11					625.0			76
55.0	51	13					650.0			82
60.0	60	15					675.0			89
65.0	71	18					700.0			96
70.0	82	21					725.0			102
75.0	94	24					750.0			110
80.0	107	27	7				775.0			117
85.0	121	31	8				800.0			125
90.0	135	35	9				825.0			133
95.0	151	39	10				850.0			141
100.0		43	11				900.0			158
110.0		52	14	9			925.0			167
120.0		62	17	11			950.0			176
130.0		72	19	13			975.0			185
140.0		84	22	15			1000.0			195
150.0		96	26	17			1100.0			
160.0		109	29	20			1200.0			
170.0		124	33	22			1300.0			
180.0		138	37	25	6		1400.0			
190.0		154	41	28	7		1500.0			
200.0		171	46	31	8					
220.0			56	37	9					
240.0			66	44	11					
260.0			78	52	13					
280.0			90	60	15					
Size	2.50"	3.00"	4.00"	5.00"	6.00"		Size	4.00"	5.00"	6.00"
FF	7.737	15.297	29.523	36.155	71.613		FF	29.523	36.155	71.613
Flow Formulas GPM = FF x ($\sqrt{DP}$) DP = $(GPM/FF)^2$ PPL = DP x 0.12					Notes: 1) Accuracy $\pm$ 3% of flow rate. 2) Repeatability $\pm$ 0.25% of rate. 3) Values in BOLD type represents traditional 10" to 100" sizing range. 4) All valves will function above and below ranges shown. Pressure drop and readability should be taken into account.					

Differential Pressure Table - Model VG/VF - 8.00" to 16.00"

Model MBF / MF, MBG / MG Valves Size 8” - 12” / VF, VG & VW Valves Size 8” - 16”						
Differential Pressure: Inches W.C.						
	Models MBF/MF, MBG/MG VF, VG & VW			Models MBF/MF, MBG/MG, VF, VG & VW	Models VF, VG & VW	
Flow GPM	Model Size		Flow GPM	Model Size		
	800	1000		1200	1400	1600
400.0	10		1000.0	10		
425.0	12		1100.0	12		
450.0	13		1200.0	14		
475.0	15		1300.0	16	7	
500.0	16		1400.0	19	8	
525.0	18		1500.0	22	9	
550.0	20		1600.0	25	11	
575.0	21		1700.0	28	12	
600.0	23	10	1800.0	32	13	
625.0	25	11	1900.0	35	15	8
650.0	27	12	2000.0	39	17	9
675.0	29	13	2200.0	47	20	11
700.0	32	14	2400.0	56	24	13
725.0	34	15	2600.0	66	28	16
750.0	36	16	2800.0	77	33	18
775.0	39	18	3000.0	88	37	21
800.0	41	19	3200.0	100	43	24
825.0	44	20	3400.0	113	48	27
850.0	47	21	3600.0	127	54	30
875.0	50	22	3800.0	141	60	34
900.0	52	24	4000.0	156	67	37
925.0	55	25	4200.0	172	73	41
950.0	58	26	4400.0	189	81	45
975.0	62	28	4500.0		84	47
1000.0	65	29	4600.0		88	49
1100.0	78	35	4700.0		92	51
1200.0	93	42	4800.0		96	54
1300.0	109	49	5000.0		104	58
1400.0	127	57	5200.0			63
1500.0	146	65	5400.0			68
1600.0	166	74	5600.0			73
1700.0	187	84	5800.0			78
1800.0	210	94	6000.0			84
1900.0		105	6400.0			95
2000.0		116	6800.0			108
2200.0		141				
2400.0		168				
Size	8”	10”	Size	12”	14”	16”
FF	124.78	185.42	FF	320.04	490.29	655.0
Flow Formulas GPM = FF x (√DP) DP = (GPM/FF) ² PPL = DP x 0.12		Notes: 1) Accuracy ± 3% of flow rate. 2) Repeatability ± 0.25% of rate. 3) Values in BOLD type represents traditional 10” to 100” sizing range. 4) All valves will function above and below ranges shown. Pressure drop and readability should be taken into account.				

MANUAL

Optional features and accessories available for this Macon product are an extra charge, and not included in the standard model price.
www.maconbalancing.com



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